

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| S1 | 480 | 382/135.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S2 | 2359 | 382/100.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 16:57 |
| S3 | 1276 | 356/71.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 16:57 |
| S4 | 243 | 340/5.86.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 16:57 |
| S5 | 882 | 382/298.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 16:57 |
| S6 | 679 | 382/299.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 16:58 |
| S7 | 731 | 382/251.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 16:58 |
| S8 | 134 | increase near (resolution (quantiz\$5 near bit)) near (pixel) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 17:00 |

EAST Search History

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|-----|--------|--|--|----|----|------------------|
| S9 | 36706 | (mark\$3 watermark\$3) near detect\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 17:01 |
| S10 | 5 | S8 and S9 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 18:04 |
| S11 | 64 | progressiv\$3 with (detect\$4 sens\$4) with (\$5mark barcod\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 18:05 |
| S12 | 625915 | resolution quantization | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 18:05 |
| S13 | 9 | S11 and S12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 18:05 |
| S14 | 194 | (coarse low adj1 resolution) with (detect\$4 sens\$4) with (\$5mark barcode) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 18:07 |
| S15 | 668 | (fine high adj1 resolution) with (detect\$4 sens\$4) with (\$5mark barcode) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 18:55 |
| S16 | 86 | S14 and S15 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:07 |

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|-----|------|---|--|----|----|------------------|
| S17 | 70 | (coarse low adj1 resolution thumbnail) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:09 |
| S18 | 130 | (fast quick) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:09 |
| S19 | 203 | (refin\$4 updat\$4) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:13 |
| S20 | 1 | (coarse adj2 fine) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:13 |
| S21 | 28 | (low adj2 high) with (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:14 |
| S22 | 180 | (coarse adj2 fine) and (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:13 |
| S23 | 1551 | (low adj2 high) and (detect\$4 sens\$4 measure\$4 evaluat\$4 find\$4 identif\$5) adj2 (\$5mark barcode glyph) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:14 |
| S24 | 49 | S22 and S23 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:16 |

EAST Search History

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|-----|-------|---------------|---|----|----|------------------|
| S25 | 97903 | "235".clas. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S26 | 54124 | "358".clas. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S27 | 16915 | "380".clas. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S28 | 1595 | 382/181.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S29 | 361 | 382/101.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S30 | 59 | 382/102.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |
| S31 | 2 | "5438636".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/05 19:17 |

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|-----|----|---|------------------------------|----|----|------------------|
| S32 | 37 | ("3410991" "3833882" "4473746" "4648120" "4749879" "4797943" "4864629" "4873426" "4945496" "4958064" "4973829" "4974187" "4988852" "4992650" "5036182" "5045677" "5073954" "5073958" "5081689" "5101445" "5120940" "5142592" "5151953" "5155343" "5155344" "5227863").PN. OR ("5438636"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/05 19:18 |
|-----|----|---|------------------------------|----|----|------------------|

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[File 8] Ei Compendex(R) 1884-2007/Feb W4
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[File 34] SciSearch(R) Cited Ref Sci 1990-2007/Mar W1
(c) 2007 The Thomson Corp. All rights reserved.

[File 35] Dissertation Abs Online 1861-2007/Feb
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[File 65] Inside Conferences 1993-2007/Mar 07
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**File 94: JICST will be removed from all vendors on March 31, 2007. Please contact the Knowledge Center for alternative files.*

[File 95] TEME-Technology & Management 1989-2007/Mar W1
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[File 99] Wilson Appl. Sci & Tech Abs 1983-2007/Feb
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[File 256] TecInfoSource 82-2007/Oct
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[File 583] Gale Group Globalbase(TM) 1986-2002/Dec 13
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[File 603] Newspaper Abstracts 1984-1988
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[File 483] Newspaper Abs Daily 1986-2007/Mar 09
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[File 248] PIRA 1975-2007/Feb W2
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| Set | Items | Description |
|-----|---------|---|
| S1 | 7688852 | S IMAG? OR PHOTO OR DIGITAL???() IMAG? OR PICTURE?? OR PHOTOS OR PHOTOGRAPH?? OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRAPHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN?? OR IMAG??? OR BIT()MAP?? |

S2 2931588 S (WATERMARK?? OR IDENTIFIER OR SYMBOL?? OR BARCODE?? OR MARK?? OR PATTERN?? OR NUMBER (3N) PATTERN?? OR ENCRYPT?? OR EMBED? OR INSCRI? OR LIGHT()ACTIVATE? OR HIDE? ? OR HIDDEN OR HIDDEN (3N) COD? OR AUTHENTICAT? OR IMPREGNAT???? OR STEGAN? OR ID OR IDENTIFICATION OR PASSWORD OR PASSCODE?? OR PASS() (WORD?? OR CODE?? OR INFORMATION OR ENCOD?)) (3N) S1
 S3 142436 S (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND?? OR INDICAT? OR DETERM? OR DISCOVER?? UNCOVER?? OR ILLUMINAT?) (3N) S2
 S4 118 S ((INCREAS? OR IMPROV?) (3N) (RESOLUTION OR QUANTI?)) (20N) S3
 S5 247139 S (SET???? OR INITIAT? OR TERMINAT? OR STOP? OR HALT ???) (3N) (TIM?? OR COUNT?? OR ITERAT?? OR PERIOD?? OR INTERVAL?? OR PROCESS?)
 S6 1373 S (REPEAT?? OR START?? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) (3N) S5
 S7 1089 S AU=(MIYAKE, N? OR MIYAKE N?)
 S8 0 S S4 (3N) (S5 OR S6)
 S9 0 S S4 (40N) (S5 OR S6)
 S10 0 S S4 AND (S5 OR S6)
 S11 1 S (REPEAT?? OR START?? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) (3N) S4
 S12 1 S (REPEAT?? OR START?? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) (20N) S4
 S13 0 S S12 NOT S11
 S14 4 S (REPEAT?? OR START?? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) AND S4
 S15 3 S S14 NOT S12
 S16 1 RD (unique items)
 S17 13 S S4 (3N) (TIM?? OR COUNT?? OR ITERAT?? OR PERIOD?? OR INTERVAL?? OR PROCESS?)
 S18 7 S S17 NOT PY>2000
 S19 4 RD (unique items)
 S20 23 S S4 (20N) (TIM?? OR COUNT?? OR ITERAT?? OR PERIOD?? OR INTERVAL?? OR PROCESS?)
 S21 10 S S20 NOT (S11 OR S14 OR S17)
 S22 7 RD (unique items)
 S23 5 S S22 NOT PY>2000
 S24 0 S S4 AND S7
 S25 0 S S3 AND S7
 S26 32 S S2 AND S7
 S27 28 RD (unique items)
 S28 19 S S27 NOT PY>2000
 S29 19 S S28 NOT (S11 OR S14 OR S17 OR S21)
 S30 0 S S29 AND (RESOLUTION OR QUANTI?)

11/3,K/1 (Item 1 from file: 8) [Links](#)

Fulltext available through: [ScienceDirect](#)

Ei Compendex(R)

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11457389 E.I. No: EIP07041038002

Title: Multi-resolution approach to identification of recurring signal patterns

Author: Kamarthi, Sagar V.; Zeid, Ibrahim; Subramaniam, Lakshmanan

Corporate Source: Department of Mechanical and Industrial Engineering 334 Snell Engineering Center Northeastern University, Boston, MA 02115, United States

Conference Title: Wavelet Applications in Industrial Processing IV

Conference Location: Boston, MA, United States **Conference Date:** 20061002-20061003

E.I. Conference No.: 68964

Source: Proceedings of SPIE - The International Society for Optical Engineering Wavelet Applications in Industrial Processing IV v 6383 2006.

Publication Year: 2006

CODEN: PSISDG **ISSN:** 0277-786X **ISBN:** 9780819464811

DOI: 10.1117/12.685692

DOI: [10.1117/12.685692](https://doi.org/10.1117/12.685692)

Article Number: 63830D

Language: English

Abstract: ...a frequency index is assigned to every sampling point of the process signal at every **resolution** level to improve the pattern recognition. **Recurring patterns** are first detected at different resolutions and are then integrated to arrive at the final results. The experimental..

16/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering](#) [USPTO Full Text Retrieval](#)

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05520090 **INSPEC Abstract Number:** B9312-2550G-014

Title: Sub-micron deep-UV imaging with a catadioptric step-and-repeat exposure system

Author Elliott, D.J.

Author Affiliation: Excimer Laser Syst., Wayland, MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1835 p. 52-61

Publication Date: 1993 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1036 5/93/\$4.00

Conference Title: Excimer Lasers: Applications, Beam Delivery Systems and Laser Design

Conference Sponsor: SPIE

Conference Date: 18-19 Nov. 1992 **Conference Location:** Boston, MA, USA

Language: English

Subfile: B

Identifiers: ...catadioptric step-and-repeat exposure system...

19/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering](#) [USPTO Full Text Retrieval](#)

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[INSPEC](#)

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05520090 **INSPEC Abstract Number:** B9312-2550G-014

Title: Sub-micron deep-UV imaging with a catadioptric step-and-repeat exposure system

Author Elliott, D.J.

Author Affiliation: Excimer Laser Syst., Wayland, MA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1835 p. 52-61

Publication Date: 1993 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

U.S. Copyright Clearance Center Code: 0 8194 1036 5/93/\$4.00

Conference Title: Excimer Lasers: Applications, Beam Delivery Systems and Laser Design

Conference Sponsor: SPIE

Conference Date: 18-19 Nov. 1992 **Conference Location:** Boston, MA, USA

Language: English

Subfile: B

Abstract: ...high density bipolar IC manufacturing. The imaging system and its optics are described along with **process** conditions used to **pattern** deep-UV sensitive photoresists. SEM photos of imaged wafers are presented, and methods to further **improve** deep-UV **pattern resolution** are discussed.

19/3,K/2 (Item 1 from file: 6) [Links](#)

Fulltext available through: [Check for PDF Download Availability and Purchase](#)

NTIS

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Radioisotopes in the study of the adaptation of dental amalgam fillings

Bermawi, A.

Atomic Energy Commission, Damascus (Syria). Dept. of Radiation Protection and Nuclear Safety.

Corporate Source Codes: 089946002; 0626500

Report Number: AECS-PR/FRSR-92

Feb 95 206p

Language: Arabic

Journal Announcement: GRAI9617

Arabic.

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...under study, and spread from their basal parts to the angle of their occlusal margin. - Quantitative increase of leakage with time. - The type of the alloy played an active role in determining the pattern of leakage. - Metallic amalgam alloys with spheroidal regular atoms showed the least leakage. - The occlusal...

19/3,K/3 (Item 1 from file: 34) [Links](#)

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SciSearch(R) Cited Ref Sci

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07764866 Genuine Article#: 205PY No. References: 112

Dynamics of energy technologies and global change

Author: Grubler A; Nakicenovic N; Victor DG (REPRINT)

Corporate Source: COUNCIL FOREIGN RELAT,58 E 68TH ST/NEW YORK/NY/10021 (REPRINT); COUNCIL FOREIGN RELAT,/NEW YORK/NY/10021; INT INST APPL SYST ANAL,ENVIRONMENTALLY COMPATIBLE ENERGY STRATEGIES PROJ/A-2361 LAXENBURG//AUSTRIA/

Journal: ENERGY POLICY , 1999 , V 27 , N5 (MAY), P 247-280

ISSN: 0301-4215 **Publication date:** 19990500

Publisher: ELSEVIER SCI LTD , THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND

Language: English **Document Type:** REVIEW (ABSTRACT AVAILABLE)

Abstract: ...new modeling techniques. In the historical record, we identify characteristic "learning rates" that allow simple quantified characterization of the improvement in cost and performance due to cumulative experience and investments. We also identify patterns, processes and timescales that typify the diffusion of new technologies in competitive markets. Technologies that are...

19/3,K/4 (Item 1 from file: 94) [Links](#)

JICST-EPlus

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01912263 **JICST Accession Number:** 93A0958927 **File Segment:** JICST-E

Practical resolution improvement in oblique illumination lithography.

TAMECHIKA EMI (1); HORIUCHI TOSHIYUKI (1); HARADA KATSUHIRO (1)

(1) Nippon Telegraph & Telephone Corp., LSI Lab.

Densi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku (IEIC Technical Report (Institute of Electronics, Information and Communication Engineers) , 1993 , VOL.93,NO.300(SDM93 110-117) , PAGE.1-8 , FIG.15, REF.9

Journal Number: S0532BBG

Universal Decimal Classification: 621.382.002.2

Language: Japanese **Country of Publication:** Japan

Document Type: Journal

Article Type: Original paper

Media Type: Printed Publication

Abstract: An oblique illumination can improve the resolution in optical lithography. This paper presents a resolution improvement technique for non-periodic patterns where the oblique illumination effects are limited. Since the problems are caused by non-periodicity, a technique called auxiliary..

23/3,K/1 (Item 1 from file: 2) [Links](#)

Fulltext available through: [SPIE - The International Society of Optical Engineering](#) [USPTO Full Text Retrieval Options](#)

INSPEC

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04779203 **INSPEC Abstract Number:** B91002187, C91006205

Title: Advanced 5x reticle inspection technologies for ULSI devices

Author Takeuchi, S.; Joseph, D.A.; Yoshida, M.; Moriizumi, K.; Parker, D.; Watakabe, Y.

Author Affiliation: LSI R&D Lab., Mitsubishi Electr. Corp., Itami, Japan

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1261 p. 195-205

Publication Date: 1990 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

Conference Title: Integrated Circuit Metrology, Inspection and Process Control IV

Conference Sponsor: SPIE

Conference Date: 5-6 March 1990 **Conference Location:** San Jose, CA, USA

Language: English

Subfile: B C

Abstract: ...system are enhanced using programmable finite impulse response filters. New defect detection algorithms are utilized. **Increased resolution** is also incorporated in the database images. Higher resolution database images are especially effective in improving sensitivity and reducing false detections in small pattern geometry. The database format has also been optimized to minimize the disk storage requirements and network file transfer time. The new database generator is capable of expanding compacted data and creating grey level bit...

23/3,K/2 (Item 2 from file: 2) [Links](#)

Fulltext available through: [ScienceDirect](#)

INSPEC

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03271631 **INSPEC Abstract Number:** B84035112

Title: Optical Microlithography II. Technology for the 1980s

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.394

Publication Date: 1983 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

Conference Title: Optical Microlithography II. Technology for the 1980s

Conference Sponsor: SPIE

Conference Date: 16-17 March 1983 **Conference Location:** Santa Clara, CA, USA

Language: English

Subfile: B

Abstract: ...submicron optical lithography; Ge-Se based resist systems for submicron VLSI application; two layer photoresist processes in a production environment; overlay performance of the Perkin-Elmer Model 500; deep UV high resolution lithography; improved Novolak-based photoresist system for VLSI lithography; automatic inspection for in-aligner reticle qualification and wafer pattern defect detection. Abstracts of individual papers can be found under the relevant classification codes in this or...

23/3,K/3 (Item 1 from file: 34) [Links](#)

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01325350 **Genuine Article#:** GP171 **No. References:** 10

OPTIMIZING SEPARATION PARAMETERS IN CAPILLARY ISOELECTRIC-FOCUSING

Author: ZHU MD; RODRIGUEZ R; WEHR T

Corporate Source: BIO-RAD LABS,3300 REGATTA BLVD/RICHMOND//CA/94804; BIO-RAD LABS,3300 REGATTA BLVD/RICHMOND//CA/94804

Journal: JOURNAL OF CHROMATOGRAPHY , 1991 , V 559 , N1-2 , P 479-488

Language: ENGLISH **Document Type:** ARTICLE (Abstract Available)

Abstract: ...acidic proteins. Mobilization with a neutral-pI zwitterion selectively mobilized neutral and basic proteins with improved resolution . Observation of colored proteins in glass capillaries mounted on thermosensitive liquid crystal was used to determine the heat generation patterns along the capillary and the effect of salt on the IEF process. The presence of salt in the sample resulted in long focusing and mobilization times. Incorporation...

23/3,K/4 (Item 1 from file: 35) [Links](#)

Dissertation Abs Online

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779046 ORDER NO: AAD82-11417

HOLOGRAPHIC MOIRE - A SYSTEMATIC STUDY AND APPLICATIONS

Author: NARAYANAN, RAJAGOPALA

Degree: PH.D.

Year: 1981

Corporate Source/Institution: ILLINOIS INSTITUTE OF TECHNOLOGY (0091)

Source: Volume 4212B of Dissertations Abstracts International.

PAGE 4857 . 198 PAGES

...obtained with only two holograms and the surface geometry. A new technique is proposed to improve the resolution and sensitivity of the results by utilizing both the fringe patterns of the double illumination. Techniques to obtain derivatives are described bringing out the advantages of digital signal processing and smoothed cubic spline. Holographic non destructive testing is an important application. Its advantages over...

23/3,K/5 (Item 1 from file: 248) [Links](#)

PIRA

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00254069 Pira Accession Number: 40503277

Title: PROCESSING ELECTRON BEAM SENSITIVE RESISTS

Patent Assignee: RCA CORP.

Patent Number: GB 1513388

Application Date: 740916

Document Type: Patent

Language: unspecified

Abstract: Development process for resist films gives a relief pattern of increased sensitivity and resolution.

[File 344] Chinese Patents Abs Jan 1985-2006/Jan
(c) 2006 European Patent Office. All rights reserved.

[File 347] JAPIO Dec 1976-2006/Nov(Updated 070228)
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[File 350] Derwent WPIX 1963-2006/UD=200716
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[File 371] French Patents 1961-2002/BOPI 200209
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*File 371: This file is not currently updating. The last update is 200209.

| Set | Items | Description |
|-----|---------|--|
| S1 | 3361068 | S IMAG? OR PHOTO OR DIGITAL???() IMAG? OR PICTURE?? OR PHOTOS OR PHOTOGRAPH?? OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRAPHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN?? OR IMAG??? OR BIT()MAP?? |
| S2 | 936242 | S (WATERMARK?? OR IDENTIFIER OR SYMBOL?? OR BARCODE?? OR MARK?? OR PATTERN?? OR NUMBER(3N) PATTERN?? OR ENCRYPT??? OR EMBED? OR INSCRI? OR LIGHT()ACTIVATE? OR HIDE? ? OR HIDDEN OR HIDDEN(3N)COD? OR AUTHENTICAT? OR IMPREGNAT????? OR STEGAN? OR ID OR IDENTIFICATION OR PASSWORD OR PASSCODE?? OR PASS() (WORD?? OR CODE?? OR INFORMATION OR ENCOD?) (3N)S1 |
| S3 | 74421 | S (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR INDICAT? OR DETERM? OR DISCOVER??? UNCOVER??? OR ILLUMINAT?) (3N)S2 |
| S4 | 94 | S ((INCREAS? OR IMPROV?) (3N) (RESOLUTION OR QUANTI?)) (20N)S3 |
| S5 | 333332 | S (SET???? OR INITIAT? OR TERMINAT? OR STOP? OR HALT ????) (3N) (TIM??? OR COUNT??? OR ITERAT??? OR PERIOD?? OR INTERVAL?? OR PROCESS?) |
| S6 | 2187 | S (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) (3N)S5 |
| S7 | 2244 | S AU=(MIYAKE, N? OR MIYAKE N?) |
| S8 | 1 | S S4 AND (S5 OR S6) |
| S9 | 0 | S S8 NOT CRANE |
| S10 | 3 | S S4(20N) (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) |
| S11 | 1 | S S10 NOT ACID |
| S12 | 2346 | S ((INCREAS? OR IMPROV? OR ENHANC? OR CHANG??? OR MODIF?) (3N) (RESOLUTION OR QUANTI?)) (20N)S2 |
| S13 | 439 | S S12(10N) (DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND??? OR INDICAT? OR DETERM? OR DISCOVER??? UNCOVER??? OR ILLUMINAT?) |
| S14 | 0 | S S13 AND WATERMARK?? |
| S15 | 20 | S S13 AND IC=G06K? |
| S16 | 14 | S S15 NOT AD=20001023:20070309/PR |
| S17 | 14 | S S16 NOT (S10 OR S10) |
| S18 | 7 | S (S4 OR S12) AND S7 |
| S19 | 7 | S S18 NOT (S10 OR S17) |
| S20 | 0 | S S19 AND RESOLUTION |
| S21 | 5 | S S4 AND IC=G06K? |
| S22 | 3 | S S21 NOT AD=20001023:20070309/PR |
| S23 | 0 | S S22 NOT (S10 OR S17) |
| S24 | 109 | S S2 AND S7 |
| S25 | 0 | S ((INCREAS? OR IMPROV? OR ENHANC?) (3N) (RESOLUTION OR QUANTI?)) (3N)S24 |
| S26 | 1 | S ((INCREAS? OR IMPROV? OR ENHANC?) (3N) (RESOLUTION OR QUANTI?)) (S)S24 |
| S27 | 3 | S S24 AND WATERMARK??? |
| S28 | 192 | S S3(3N)S5 |
| S29 | 2 | S S28(3N) (REPEAT??? OR START??? REINITIAT? OR RECUR? OR BEGIN OR REPETIT?) |
| S30 | 1 | S S29 NOT SEWING |
| S31 | 0 | S S28(20N)WATERMARK??? |

| | | |
|-----|---|--------------------------------------|
| S32 | 8 | S S28 AND IC=G06K? |
| S33 | 7 | S S32 NOT (S10 OR S17 OR S27 OR S30) |
| S34 | 6 | S S33 NOT FLOW()METER |
| S35 | 0 | S S34 AND RESOLUTION |

11/3,K/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0007139464 *Drawing available*

WPI Acc no: 1995-173620/199523

XRPX Acc No: N1995-136137

Detailed pattern exposure method for semiconductor device manufacturing process - passing primary and secondary excitation rays to memory pattern board to store image to emit detailed light emission pattern with high degree of resolution

Patent Assignee: DAINIPPON PRINTING CO LTD (NIPQ)

Inventor: TAKAHASHI M

Patent Family (1 patents, 1 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| JP 7094394 | A | 19950407 | JP 1993236060 | A | 19930922 | 199523 | B |

Priority Applications (no., kind, date): JP 1993236060 A 19930922

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|---------------|------|-----|-----|------|--------------|
| JP 7094394 | A | JA | 7 | 6 | |

Alerting Abstract ...ADVANTAGE - Eliminates use of X-ray resist as **photo sensitive** layer. Provides **pattern** with high degree of **resolution**. Improves **resolution** with fluorescent material of appropriate wavelength. Realises repetitive use of memory pattern board.

16/3,K/1 (Item 1 from file: 347) [Links](#)

JAPIO

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05538306 **Image available**

BAR CODE READER

Pub. No.: 09-153106 [JP 9153106 A]

Published: June 10, 1997 (19970610)

Inventor: YOSHIKAWA KENJI

Applicant: OLYMPUS OPTICAL CO LTD [000037] (A Japanese Company or Corporation), JP (Japan)

Application No.: 07-310552 [JP 95310552]

Filed: November 29, 1995 (19951129)

International Class: G06K-007/10

ABSTRACT

...SOLUTION: In the bar code reader, an **illumination** light quantity change pattern selecting part 11 selects a change pattern in the **illumination** light quantity of each divided **illumination** part in an **illumination** device 2 based upon the reading rate of a multistage bar...

16/3,K/2 (Item 2 from file: 347) [Links](#)

JAPIO

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03390498 **Image available**

MAGNETIC BAR CODE

Pub. No.: 03-053398 [JP 3053398 A]

Published: March 07, 1991 (19910307)

Inventor: OKABE HIROTAKA

Applicant: NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)

Application No.: 01-189048 [JP 89189048]

Filed: July 21, 1989 (19890721)

Journal: Section: P, Section No. 1206, Vol. 15, No. 205, Pg. 116, May 27, 1991 (19910527)

International Class: G06K-019/06

ABSTRACT

PURPOSE: To improve resolution and to extend a distance for detection by providing plural groove-shaped rectangular patterns on a magnetic body or a conductive metal and giving a shallower depth to a...

16/3,K/3 (Item 3 from file: 347) [Links](#)

JAPIO

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03005986 CHARACTER SEGMENTING METHOD

Pub. No.: 01-303586 [JP 1303586 A]

Published: December 07, 1989 (19891207)

Inventor: SUZUKI AKIKO

SATO HAJIME

TACHIKAWA MICHIO YOSHI

Applicant: RICOH CO LTD [000674] (A Japanese Company or Corporation), JP (Japan)

Application No.: 63-133424 [JP 88133424]

Filed: May 31, 1988 (19880531)

Journal: Section: P, Section No. 1011, Vol. 14, No. 98, Pg. 87, February 22, 1990 (19900222)

International Class: G06K-009/34

ABSTRACT

...patterns of plural successive character elements, evaluate the respective patterns according to the results, and determines the character element or combined pattern having the highest accuracy as a character pattern. Consequently, the high-reliability character segmentation is performed with relatively small processing quantity without increasing the quantity of hardware while data are fed back from the recognition system.

16/3,K/4 (Item 4 from file: 347) [Links](#)

JAPIO

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02628680 **Image available**

KNOWLEDGE PROCESSING SYSTEM FOR CHARACTER READER

Pub. No.: 63-245580 [JP 63245580 A]

Published: October 12, 1988 (19881012)

Inventor: NANBA HIROMI

Applicant: TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)

Application No.: 62-078562 [JP 8778562]

Filed: March 31, 1987 (19870331)

Journal: Section: P, Section No. 824, Vol. 13, No. 54, Pg. 130, February 08, 1989 (19890208)

International Class: G06K-009/72

ABSTRACT

PURPOSE: To refer to a word including a character with a voiced sound symbol without increasing the quantity of

the data of a knowledge base by detecting and excluding a voiced sound symbol/semivoiced sound symbol present in the knowledge base and a candidate character group at the time of treating...

16/3,K/5 (Item 5 from file: 347) [Links](#)

JAPIO

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01705191 **Image available**

CHARACTER/PATTERN RECOGNIZER

Pub. No.: 60-183691 [JP 60183691 A]

Published: September 19, 1985 (19850919)

Inventor: TOMITA MASAMI

ONO MASAMI

FUJII HISATAKA

Applicant: MATSUSHITA ELECTRIC WORKS LTD [000583] (A Japanese Company or Corporation), JP (Japan)

Application No.: 59-040856 [JP 8440856]

Filed: March 02, 1984 (19840302)

Journal: Section: P, Section No. 428, Vol. 10, No. 38, Pg. 43, February 14, 1986 (19860214)

International Class: G06K-009/62

ABSTRACT

...of them are fixed around the pen tip in all directions. The lines comprising characters, symbols, and patterns depicted on a sheet of paper by the pen 1 are detected if only a change in the quantity of the light coming into the fiber 3 is detected . Only while the pen tip is pressed against the paper, the pen reads a light...

16/3,K/6 (Item 6 from file: 347) [Links](#)

JAPIO

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00414041 GRAPHIC QUANTIZING DEVICE

Pub. No.: 54-066041 [JP 54066041 A]

Published: May 28, 1979 (19790528)

Inventor: NISHIJIMA YASUO

MIURA TETSUO

Applicant: NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)

Application No.: 52-132731 [JP 77132731]

Filed: November 04, 1977 (19771104)

Journal: Section: E, Section No. 125, Vol. 03, No. 86, Pg. 163, July 24, 1979 (19790724)

International Class: G06K-009/00

ABSTRACT

...surface has been set. As a result, circuit 22 generates a quantization signal equivalent to pattern density inside the area between the change point from a white level into an ink block, and the next change point. This quantization signal is detected by black-level detection circuit 42 of optimum-threshold- level setting part 40, and then applied to threshold-level.

17/3/7 (Item 1 from file: 350) [Links](#)

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0009104420 Drawing available

WPI Acc no: 1999-023596/199902

Related WPI Acc No: 1998-178641; 1998-413223

XRPX Acc No: N1999-018095

Optical imaging unit for use in 2D hand-held bar code reader - has image sensor oriented such that, when bar code reader is in normal reading orientation corresponding to ID bar code, diagonal of photosensitive element array is approximately aligned with reading axis

Patent Assignee: WELCH ALLYN INC (WELC-N)

Inventor: KARPEN T W

Patent Family (1 patents, 1 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| US 5837985 | A | 19981117 | US 1996649126 | A | 19960514 | 199902 | B |
| | | | US 1996692807 | A | 19960731 | | |

Priority Applications (no., kind, date): US 1996649126 A 19960514; US 1996692807 A 19960731

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes | |
|---------------|------|-----|-----|------|-----------------------------|---------------|
| US 5837985 | A | EN | 15 | 11 | Continuation of application | US 1996649126 |

17/3/8 (Item 2 from file: 350) [Links](#)

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0008335755 Drawing available

WPI Acc no: 1997-448215/199741

XRPX Acc No: N1997-373577

Output control device for printing appts e.g laser printer - converts character patterns corresponding to input text data into bit map data using size-changed and smoothed character patterns if it is determined that resolution is second resolution

Patent Assignee: CANON KK (CANO)

Inventor: EGAWA S; MATSUMOTO K

Patent Family (1 patents, 1 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| US 5664070 | A | 19970902 | US 1991676442 | A | 19910328 | 199741 | B |
| | | | US 1992905223 | A | 19920629 | | |
| | | | US 1993175185 | A | 19931229 | | |
| | | | US 1996690944 | A | 19960801 | | |

Priority Applications (no., kind, date): JP 199081395 A 19900330

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes | |
|---------------|------|-----|-----|------|-----------------------------|---------------|
| US 5664070 | A | EN | 10 | 5 | Continuation of application | US 1991676442 |
| | | | | | Continuation of application | US 1992905223 |
| | | | | | Continuation of application | US 1993175185 |

17/3/9 (Item 3 from file: 350) [Links](#)

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0006536782 Drawing available

WPI Acc no: 1993-346172/199344

XRPX Acc No: N1993-267373

Pattern recognition method for e.g. handwritten signatures - establishes original files of basic structures, stores in reference image file and compares with information found as significant basic structures

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: RUDOLPH V; RUPPERT W

Patent Family (4 patents, 3 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 567680 | A1 | 19931103 | EP 1992107378 | A | 19920430 | 199344 | B |
| US 5657396 | A | 19970812 | US 199355441 | A | 19930430 | 199738 | E |
| | | | US 1995486470 | A | 19950816 | | |
| EP 567680 | B1 | 19990922 | EP 1992107378 | A | 19920430 | 199943 | E |
| DE 69230031 | E | 19991028 | DE 69230031 | A | 19920430 | 199951 | E |
| | | | EP 1992107378 | A | 19920430 | | |

Priority Applications (no., kind, date): EP 1992107378 A 19920430

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes | |
|-------------------------------------|----------|-----|-----|------|-------------------------|--|
| EP 567680 | A1 | EN | 20 | 12 | | |
| Regional Designated States,Original | DE FR GB | | | | | |
| US 5657396 | A | EN | 15 | 12 | Division of application | |
| EP 567680 | B1 | EN | | | | |
| Regional Designated States,Original | DE FR GB | | | | | |
| DE 69230031 | E | DE | | | Application | |
| | | | | | Based on OPI patent | |
| | | | | | EP 1992107378 | |
| | | | | | EP 567680 | |

17/3/10 (Item 4 from file: 350) [Links](#)

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0006356307 Drawing available

WPI Acc no: 1993-154289/199319

XRPX Acc No: N1993-118020

Image conversion appts for converting specific images to pattern images - inputs image information, sets mode associated with resolution, detects specific image, converts into pattern image having predetermined resolution, outputs image information and changes resolution based on set mode

Patent Assignee: CANON KK (CANO)

Inventor: AIBA Y

Patent Family (6 patents, 7 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 541361 | A1 | 19930512 | EP 1992310117 | A | 19921104 | 199319 | B |
| JP 5130444 | A | 19930525 | JP 1991319863 | A | 19911107 | 199325 | E |
| US 5552894 | A | 19960903 | US 1992971064 | A | 19921103 | 199641 | E |
| EP 541361 | B1 | 19980527 | EP 1992310117 | A | 19921104 | 199825 | E |
| DE 69225673 | E | 19980702 | DE 69225673 | A | 19921104 | 199832 | E |
| | | | EP 1992310117 | A | 19921104 | | |
| JP 3332398 | B2 | 20021007 | JP 1991319863 | A | 19911107 | 200273 | E |

Priority Applications (no., kind, date): JP 1991319863 A 19911107

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes | |
|-------------------------------------|----------------|-----|-----|------|--------------|--|
| EP 541361 | A1 | EN | 23 | 16 | | |
| Regional Designated States,Original | DE FR GB IT NL | | | | | |
| US 5552894 | A | EN | 20 | 12 | | |

| | | | | | | | |
|-------------------------------------|----------------|----|----|--|--------------------------|---------------|--|
| EP 541361 | B1 | EN | | | | | |
| Regional Designated States,Original | DE FR GB IT NL | | | | | | |
| DE 69225673 | E | DE | | | Application | EP 1992310117 | |
| | | | | | Based on OPI patent | EP 541361 | |
| JP 3332398 | B2 | JA | 14 | | Previously issued patent | JP 05130444 | |

17/3/11 (Item 5 from file: 350) [Links](#)

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0006056828 *Drawing available*

WPI Acc no: 1992-294236/199236

Related WPI Acc No: 1992-254954; 1995-045353

XRPX Acc No: N1992-225410

Magnetic medium used as magnetic patterns of magnetic scale - has substrate with predetermined patterns and magnetised substances arranged in substrate according to patterns

Patent Assignee: TEIJIN SEIKI CO LTD (TEIX)

Inventor: TOGAWA M; TOYAMA K

Patent Family (14 patents, 3 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 501815 | A2 | 19920902 | EP 1992301703 | A | 19920228 | 199236 | B |
| JP 4274308 | A | 19920930 | JP 199134935 | A | 19910301 | 199246 | E |
| JP 4329612 | A | 19921118 | JP 199199354 | A | 19910501 | 199301 | E |
| JP 4329613 | A | 19921118 | JP 199199355 | A | 19910501 | 199301 | E |
| EP 501815 | A3 | 19930623 | EP 1992301703 | A | 19920228 | 199405 | E |
| US 5336586 | A | 19940809 | US 1992842057 | A | 19920226 | 199431 | E |
| | | | US 199311791 | A | 19930201 | | |
| US 5350618 | A | 19940927 | US 1992842057 | A | 19920226 | 199438 | E |
| US 5429911 | A | 19950704 | US 1992842057 | A | 19920226 | 199532 | E |
| | | | US 199311791 | A | 19930201 | | |
| | | | US 1994179707 | A | 19940111 | | |
| US 5527663 | A | 19960618 | US 1992842057 | A | 19920226 | 199630 | E |
| | | | US 199311791 | A | 19930201 | | |
| | | | US 1993136288 | A | 19931015 | | |
| | | | US 1995437569 | A | 19950509 | | |
| EP 501815 | B1 | 19961211 | EP 1992301703 | A | 19920228 | 199703 | E |
| US 5580639 | A | 19961203 | US 1992842057 | A | 19920226 | 199703 | E |
| | | | US 199311791 | A | 19930201 | | |
| | | | US 1993136279 | A | 19931123 | | |
| DE 69215717 | E | 19970123 | DE 69215717 | A | 19920228 | 199709 | E |
| | | | EP 1992301703 | A | 19920228 | | |
| JP 3005311 | B2 | 20000131 | JP 199199355 | A | 19910501 | 200010 | E |
| JP 3135130 | B2 | 20010213 | JP 199134935 | A | 19910301 | 200111 | E |

Priority Applications (no., kind, date): JP 199199355 A 19910501; JP 199134935 A 19910301; JP 199199354 A 19910501

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|-------------------------------------|----------|-----|-----|------|--------------|
| EP 501815 | A2 | EN | 33 | 63 | |
| Regional Designated States,Original | DE FR GB | | | | |

| | | | | | | |
|-------------------------------------|----------|----|----|----|-----------------------------|---------------|
| JP 4274308 | A | JA | 14 | | | |
| JP 4329612 | A | JA | 8 | | | |
| JP 4329613 | A | JA | 7 | | | |
| EP 501815 | A3 | EN | | | | |
| US 5336586 | A | EN | 30 | 63 | Division of application | US 1992842057 |
| US 5350618 | A | EN | 30 | 63 | | |
| US 5429911 | A | EN | 29 | 63 | Division of application | US 1992842057 |
| | | | | | Division of application | US 199311791 |
| | | | | | Division of patent | US 5336586 |
| | | | | | Division of patent | US 5350618 |
| US 5527663 | A | EN | 30 | 63 | Division of application | US 1992842057 |
| | | | | | Division of application | US 199311791 |
| | | | | | Continuation of application | US 1993136288 |
| | | | | | Division of patent | US 5336586 |
| | | | | | Division of patent | US 5350618 |
| EP 501815 | B1 | EN | 33 | 63 | | |
| Regional Designated States,Original | DE FR GB | | | | | |
| US 5580639 | A | EN | 24 | 63 | Division of application | US 1992842057 |
| | | | | | Division of application | US 199311791 |
| | | | | | Division of patent | US 5336586 |
| | | | | | Division of patent | US 5350618 |
| DE 69215717 | E | DE | | | Application | EP 1992301703 |
| | | | | | Based on OPI patent | EP 501815 |
| JP 3005311 | B2 | JA | 6 | | Previously issued patent | JP 04329613 |
| JP 3135130 | B2 | JA | 14 | | Previously issued patent | JP 04274308 |

17/3/12 (Item 6 from file: 350) [Links](#)

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0005382214

WPI Acc no: 1990-382814/199051

XRPX Acc No: N1990-291841

Text raster or pel images higher resolution enhancement method - selecting patterns occurring in text data but not in half-tone images for comparison with lower resolution and surrounding pels

Patent Assignee: IBM CORP (IBMC); INT BUSINESS MACHINES CORP (IBMC)

Inventor: KANTOR S

Patent Family (6 patents, 3 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| US 4975785 | A | 19901204 | US 1989389453 | A | 19890804 | 199051 | B |
| EP 412034 | A | 19910206 | EP 1990480081 | A | 19900605 | 199106 | E |
| JP 3214271 | A | 19910919 | JP 1990190880 | A | 19900720 | 199144 | E |
| EP 412034 | A3 | 19920624 | EP 1990480081 | A | 19900605 | 199333 | E |
| EP 412034 | B1 | 19950816 | EP 1990480081 | A | 19900605 | 199537 | E |
| DE 69021668 | E | 19950921 | DE 69021668 | A | 19900605 | 199543 | E |
| | | | EP 1990480081 | A | 19900605 | | |

Priority Applications (no., kind, date): US 1989389453 A 19890804

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|---------------|------|-----|-----|------|--------------|
| EP 412034 | A | EN | | | |

| | | | | | | |
|-------------------------------------|----------|----|----|---------------------|---------------|--|
| Regional Designated States,Original | DE FR GB | | | | | |
| EP 412034 | A3 | EN | | | | |
| EP 412034 | B1 | EN | 15 | 10 | | |
| Regional Designated States,Original | DE FR GB | | | | | |
| DE 69021668 | E | DE | | Application | EP 1990480081 | |
| | | | | Based on OPI patent | EP 412034 | |

17/3/13 (Item 7 from file: 350) [Links](#)

Derwent WPIX

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0003574162

WPI Acc no: 1986-008930/198602

Sensing appts. for opaque pattern on translucent substrate - has narrow band filter between sensor and pattern with corresp. band rear light source

Patent Assignee: IBM CORP (IBMC)

Inventor: GOODMAN D S

Patent Family (4 patents, 3 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 166881 | A | 19860108 | EP 1985104680 | A | 19850419 | 198602 | B |
| US 4577099 | A | 19860318 | US 1984626366 | A | 19840629 | 198614 | E |
| | | | US 1984626366 | A | 19840629 | | |
| EP 166881 | B | 19901024 | EP 1985104680 | A | 19850419 | 199043 | E |
| DE 3580199 | G | 19901129 | | | | 199049 | E |

Priority Applications (no., kind, date): US 1984626366 A 19840629

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|-------------------------------------|----------|-----|-----|------|--------------|
| EP 166881 | A | EN | 13 | 4 | |
| Regional Designated States,Original | DE FR GB | | | | |
| EP 166881 | B | EN | | 4 | |
| Regional Designated States,Original | DE FR GB | | | | |

17/3/14 (Item 8 from file: 350) [Links](#)

Derwent WPIX

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0001655784

WPI Acc no: 1978-K7420A/197849

Non-coherent optical signal pattern recognition method - uses double light modulation of second displaced pattern to determine accurately correlational function extremum

Patent Assignee: KHARKOV POLY (KHPO)

Inventor: CHEREPAKHA

Patent Family (1 patents, 1 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| SU 561202 | A | 19780414 | SU 2317238 | A | 19760122 | 197849 | B |

26/3,K/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0008398717 *Drawing available*

WP1 Acc no: 1997-515518/199748

XRPX Acc No: N1997-428829

Image processing apparatus for transforming low to high resolution information in communication between devices - has forming device that forms high resolution information based on synthesised values provided by synthesis device

Patent Assignee: CANON KK (CANO)

Inventor: MIYAKE N

Patent Family (7 patents, 5 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 803841 | A2 | 19971029 | EP 1997302833 | A | 19970424 | 199748 | B |
| JP 9294204 | A | 19971111 | JP 1996105402 | A | 19960425 | 199804 | E |
| US 6009213 | A | 19991228 | US 1997847760 | A | 19970423 | 200007 | E |
| JP 3210248 | B2 | 20010917 | JP 1996105402 | A | 19960425 | 200156 | E |
| EP 803841 | B1 | 20040623 | EP 1997302833 | A | 19970424 | 200442 | E |
| DE 69729603 | E | 20040729 | DE 69729603 | A | 19970424 | 200452 | E |
| | | | EP 1997302833 | A | 19970424 | | |
| DE 69729603 | T2 | 20050714 | DE 69729603 | A | 19970424 | 200547 | E |
| | | | EP 1997302833 | A | 19970424 | | |

Priority Applications (no., kind, date): EP 1997302833 A 19970424; JP 1996105402 A 19960425

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|-------------------------------------|------|-------------|-----|------|--------------------------------------|
| EP 803841 | A2 | EN | 22 | 14 | |
| Regional Designated States,Original | | DE FR GB IT | | | |
| JP 9294204 | A | JA | 8 | | |
| JP 3210248 | B2 | JA | 8 | | Previously issued patent JP 09294204 |
| EP 803841 | B1 | EN | | | |
| Regional Designated States,Original | | DE FR GB IT | | | |
| DE 69729603 | E | DE | | | Application EP 1997302833 |
| | | | | | Based on OPI patent EP 803841 |
| DE 69729603 | T2 | DE | | | Application EP 1997302833 |
| | | | | | Based on OPI patent EP 803841 |

27/3,K/1 (Item 1 from file: 347) [Links](#)

JAPIO

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06900466 **Image available**

DEVICE AND METHOD FOR PROCESSING IMAGE AND STORAGE MEDIUM

Pub. No.: 2001-127976 [JP 2001127976 A]

Published: May 11, 2001 (20010511)

Inventor: MIYAKE NOBUTAKA

Applicant: CANON INC

Application No.: 11-304353 [JP 99304353]

Filed: October 26, 1999 (19991026)

Inventor: MIYAKE NOBUTAKA

ABSTRACT

PROBLEM TO BE SOLVED: To determine whether a **mark image** such as a **watermark** is included in **picture information** within a range, where the throughput of a printing device is not reduced, when... time is 'out' during the detection processing (step S405), it is determined that a specified **pattern** does not exist in the image (step S406).

COPYRIGHT: (C)2001,JPO

27/3,K/2 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0013408287 *Drawing available*

WPI Acc no: 2003-498640/200347

XRPX Acc No: N2003-396471

Image processor extracts prescribed information from fed image according to predetermined extracting method which is switched based on fed classification information

Patent Assignee: CANON KK (CANO)

Inventor: KUSAKABE M; MIYAKE N; UMEDA K

Patent Family (1 patents, 1 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| JP 2003110838 | A | 20030411 | JP 2001300542 | A | 20010928 | 200347 | B |

Priority Applications (no., kind, date): JP 2001300542 A 20010928

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|---------------|------|-----|-----|------|--------------|
| JP 2003110838 | A | JA | 15 | 18 | |

Inventor: MIYAKE N

Alerting Abstract ... USE - For image processing in connection with watermarking, e.g. as printer driver software in a computer which mainly creates the image information for output to a print engine, or application... quality and extraction precision in extracting information embedded in image.

Original Publication Data by Authority

Inventor name & address:

MIYAKE NOBUTAKA...

27/3,K/3 (Item 2 from file: 350) [Links](#)

Derwent WPIX

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0010768936 *Drawing available*

WPI Acc no: 2001-383214/200141

XRPX Acc No: N2001-281129

Image processing apparatus which can determine if the information contains an image such as a watermark without causing lowering of the throughput of a printer

Patent Assignee: CANON KK (CANO)
Inventor: MIYAKE N

Patent Family (3 patents, 26 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|---------------|------|----------|--------------------|------|----------|--------|------|
| EP 1096782 | A2 | 20010502 | EP 2000309193 | A | 20001018 | 200141 | B |
| JP 2001127976 | A | 20010511 | JP 1999304353 | A | 19991026 | 200143 | E |
| JP 3733268 | B2 | 20060111 | JP 1999304353 | A | 19991026 | 200608 | E |

Priority Applications (no., kind, date): JP 1999304353 A 19991026

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|-------------------------------------|--|-----|-----|--------------------------|---------------|
| EP 1096782 | A2 | EN | 15 | 7 | |
| Regional Designated States,Original | AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI | | | | |
| JP 2001127976 | A | JA | 11 | | |
| JP 3733268 | B2 | JA | 12 | Previously issued patent | JP 2001127976 |

Image processing apparatus which can determine if the information contains an image such as a watermark without causing lowering of the throughput of a printer

Inventor: MIYAKE N

Alerting Abstract ...If the count has reached a determined count, it is judged that there is no **watermark**, step 406 if the time has run out.

...USE - Determining if **image** information contains a **watermark**.

Title Terms .../Index Terms/Additional Words: **WATERMARK**;

Original Publication Data by Authority

Inventor name & address:

Miyake, Nobutaka... ...MIYAKE NOBUTAKA ...

Original Abstracts:

of being printed out has been entered, whether or not the image information contains a **mark** image such as a **watermark** is determined to such an extent that will not lower the throughput of a printer. To accomplish this, the...

Claims:

image information;determination means for determining whether an input image contains a mark indicative of a specific image;setting means for setting allowable time necessary for the determination to be made by said determination.... ... be determined whether the input image contains the mark indicative of a specific image within the allowable time set by said setting means

30/3,K/1 (Item 1 from file: 350) [Links](#)

Derwent WPIX

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0016178830 Drawing available

WPI Acc no: 2006-710470/200674

XRPX Acc No: N2006-559022

Photographic subject authenticating device. for portable telephone, stops repeated authentication process of photographic object when repeated- authentication stop instructions are determined to be true

Patent Assignee: OMRON CORP (OMRO); OMRON KK (OMRO); OMRON TATEISI ELECTRONICS CO (OMRO)

Inventor: SENG M; CHIGA M

Patent Family (5 patents, 40 countries)

| Patent Number | Kind | Date | Application Number | Kind | Date | Update | Type |
|----------------|------|----------|--------------------|------|----------|--------|------|
| EP 1703438 | A1 | 20060920 | EP 2006111119 | A | 20060314 | 200674 | B |
| JP 2006259922 | A | 20060928 | JP 200574033 | A | 20050315 | 200674 | E |
| US 20060208882 | A1 | 20060921 | US 2006374370 | A | 20060313 | 200674 | E |
| KR 2006101285 | A | 20060922 | KR 200623428 | A | 20060314 | 200705 | E |
| CN 1834990 | A | 20060920 | CN 200610059203 | A | 20060315 | 200707 | E |

Priority Applications (no., kind, date): JP 200574033 A 20050315

Patent Details

| Patent Number | Kind | Lan | Pgs | Draw | Filing Notes |
|-------------------------------------|------|---|-----|------|--------------|
| EP 1703438 | A1 | EN | 16 | 4 | |
| Regional Designated States,Original | | AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU | | | |
| JP 2006259922 | A | JA | 11 | | |

Photographic subject authenticating device, for portable telephone, stops repeated authentication process of photographic object when repeated- authentication stop instructions are determined to be true

[File 348] EUROPEAN PATENTS 1978-2007/ 200708

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*File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

[File 349] PCT FULLTEXT 1979-2007/UB=20070308UT=20070301

(c) 2007 WIPO/Thomson. All rights reserved.

*File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.

; d s
Set Items Description
S1 1058049 S IMAG? OR PHOTO OR DIGITAL???)()IMAG? OR PICTURE?? OR PHOTOS OR PHOTOGRAPH?? OR LOGO?? OR ICON?? OR GLYPH?? OR GRAPHIC? OR GRAPHIX OR PICTOGRAM?? OR PICTOGRAPH?? OR SYMBOL?? OR PATTERN?? OR IMAG???)OR BIT()MAP??
S2 557516 S ((WATERMARK?? OR IDENTIFIER OR SYMBOL?? OR BARCODE?? OR MARK?? OR PATTERN?? OR NUMBER(3N)PATTERN?? OR ENCRYPT???)OR EMBED? OR INSCRI? OR LIGHT()ACTIVATE? OR HIDE? ? OR HIDDEN OR HIDDEN(3N)COD? OR AUTHENTICAT? OR IMPREGNAT???? OR STEGAN? OR ID OR IDENTIFICATION OR PASSWORD OR PASSCODE?? OR PASS()WORD?? OR CODE?? OR INFORMATION OR ENCOD?)())(3N)S1
S3 81304 S ((DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND???)OR INDICAT? OR DETERM? OR DISCOVER???)UNCOVER???)OR ILLUMINAT?)())(3N)S2
S4 149 S ((INCREAS? OR IMPROV? OR ENHANCE?)())(3N)(RESOLUTION OR QUANTI?)))(20N)S3
S5 266103 S ((SET???? OR INITIAT? OR TERMINAT? OR STOP? OR HALT????) (3N)(TIM???)OR COUNT???)OR ITERAT???)OR PERIOD?? OR INTERVAL?? OR PROCESS?)
S6 4317 S ((REPEAT???)OR START???)REINITIAT? OR RECUR? OR BEGIN OR REPETIT?)())(3N)S5
S7 87 S AU=(MIYAKE, N? OR MIYAKE N?)
S8 10 S S4 AND IC=G06K?
S9 5 S S4(40N)(S5 OR S6)
S10 4 S S9 NOT S8
S11 0 S S10 AND IC-G06K?
S12 550 S ((INCREAS? OR IMPROV? OR ENHANCE?)())(3N)(RESOLUTION OR QUANTI?)))(3N)S2
S13 54 S ((DETECT? OR SENS? OR IDENTIFY OR IDENTIFIES OR FIND???)OR INDICAT? OR DETERM?)())(3N)S12
S14 0 S S13(3N)((REPEAT???)OR START???)REINITIAT? OR RECUR? OR BEGIN OR REPETIT?)
S15 3 S S13 AND IC=G06K?
S16 1 S S15 NOT S8
S17 3 S ((S6 OR S12 OR S4) AND S7
S18 3 S S17 NOT (S16 OR S8)
S19 19 S S2 AND S7
S20 0 S S19 AND IC=G06K??
S21 1 S S19 AND WATERMARK???

8/3K/1 (Item 1 from file: 348) Links

EUROPEAN PATENTS

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02070329

Improved apparatus and method for recognizing pattern data

Verbesserte Vorrichtung und Verfahren zur Erkennung von Musterdaten

Appareil et procede ameliores de reconnaissance de donnees de motif

Patent Assignee:

- **Samsung Electronics Co., Ltd.**; (7094690)
416 Maetan-dong; Yeongtong-gu Suwon-si, Gyeonggi-do; (KR)
(Applicant designated States: all)

Inventor:

- **Song, Gun-Chul**
c/o Samsung Electronics Co., Ltd. 416, Maetan-dong; Yeongtong-gu Suwon-si Gyeonggi-do; (KR)
- **Jang, Jae-Heog**
c/o Samsung Electronics Co., Ltd. 416, Maetan-dong; Yeongtong-gu Suwon-si Gyeonggi-do; (KR)

Legal Representative:

- **Grunecker, Kinkeldey, Stockmair & Schwanhauser Anwaltssozietat (100721)**
Maximilianstrasse 58; 80538 Munchen; (DE)

| | Country | Number | Kind | Date | |
|-------------|---------|------------|------|----------|---------|
| Patent | EP | 1679638 | A1 | 20060712 | (Basic) |
| Application | EP | 2006000193 | | 20060105 | |
| Priorities | KR | 205001680 | | 20050107 | |

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;
LU; LV; MC; NL; PL; PT; RO; SE; SI; SK;
TR;

Extended Designated States:

AL; BA; HR; MK; YU;

| IPC | Level | Value | Position | Status | Version | Action | Source | Office |
|--------------|-------|-------|----------|--------|----------|----------|--------|--------|
| G06K-0007/14 | A | I | F | B | 20060101 | 20060420 | H | EP |
| G06K-0007/14 | A | I | F | B | 20060101 | 20060420 | H | EP |

Abstract Word Count: 92

NOTE: 3

NOTE: Figure number on first page: 3

| Type | Pub. Date | Kind | Text |
|---------------------------------------|-----------|--------|------------|
| Publication: | English | | |
| Procedural: | English | | |
| Application: | English | | |
| Available Text | Language | Update | Word Count |
| CLAIMS A | (English) | 200628 | 642 |
| SPEC A | (English) | 200628 | 2893 |
| Total Word Count (Document A) 3535 | | | |
| Total Word Count (Document B) 0 | | | |
| Total Word Count (All Documents) 3535 | | | |

Specification: ...FIG. 6 is a detailed flowchart illustrating the above-described process of decreasing the recognition resolution to increase the pattern data recognition rate more by adjusting the pre-set resolution, included in step 302 of recognizing the sensed pattern data as Y, Cb, and Cr data among steps illustrated in FIG. 4. Referring to...

8/3K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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00738299

Apparatus for and method of determining ridge direction patterns
Gerat und Verfahren zur Bestimmung der Richtung von Rippenmustern

Appareil et methode pour determiner la direction des cretes de formes

Patent Assignee:

- **NEC CORPORATION; (236690)**
7-1, Shiba 5-chome, Minato-ku, Tokyo; (JP)
(Proprietor designated states: all)

Inventor:

- **Kamei, Toshio**
c/o NEC Corp., 7-1, Shiba 5-chome; Minato-ku, Tokyo; (JP)

Legal Representative:

- **Cozens, Paul Dennis et al (72971)**
Mathys & Squire 100 Grays Inn Road; London WC1X 8AL; (GB)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 696012 | A2 | 19960207 | (Basic) |
| | EP | 696012 | A3 | 19960424 | |
| | EP | 696012 | B1 | 20000503 | |
| Application | EP | 95304362 | | 19950621 | |
| Priorities | JP | 94138833 | | 19940621 | |

Designated States:

DE; FR; GB;

International Patent Class (V7): G06K-009/00; G06K-009/00 Abstract Word Count: 57

NOTE: 1

NOTE: Figure number on first page: 1

| Type | Pub. Date | Kind | Text |
|---------------------------------------|-----------|--------|------------|
| Publication: English | | | |
| Procedural: English | | | |
| Application: English | | | |
| Available Text | Language | Update | Word Count |
| CLAIMS B | (English) | 200018 | 645 |
| CLAIMS B | (German) | 200018 | 615 |
| CLAIMS B | (French) | 200018 | 740 |
| SPEC B | (English) | 200018 | 2346 |
| Total Word Count (Document A) 0 | | | |
| Total Word Count (Document B) 4346 | | | |
| Total Word Count (All Documents) 4346 | | | |

Specification: ...of at least preferred embodiments of the apparatus and method according to invention include:

- (a) **determining ridge direction patterns** precisely by simple processes with small numbers of operations;
- (b) **determining ridge direction patterns** wherein **quantization** levels can be **increased** as desired without additional operations;
- (c) **determining ridge direction patterns** together with confidence for each determined ridge direction.
- (d) determining ridge direction in a subregion...

**STORAGE MEDIUM AND APPARATUS FOR RECOVERING INFORMATION FROM SUCH MEDIUM
BY OVERSAMPLING**

Speichermedium und Vorrichtung zur Rückgewinnung von Daten des Mediums durch Überabtastung
SUPPORT DE STOCKAGE ET APPAREIL POUR EXTRAIRE DES INFORMATIONS DE CE SUPPORT PAR
SURECHANTILLONNAGE

Patent Assignee:

- **DOLBY LABORATORIES LICENSING CORPORATION; (551630)**
100 Potrero Avenue; San Francisco California 94103-4813; (US)
(applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;IT;LI;NL;SE)

Inventor:

- **SEAGRAVE, Charles, Gordon**
258 Orange Blossom Lane; San Rafael, CA 94903; (US)
- **RICHARDS, Martin, John**
28 Circle Road; Redwood City, CA 94062; (US)
- **MANDELL, Douglas, Evan**
4408 20th Street; San Francisco, CA 94114; (US)
- **ATHERTON, Mark, Leighton**
1331 Crestview Drive; San Carlos, CA 94070; (US)

Legal Representative:

- **Hoffmann, Eckart, Dipl.-Ing. (5571)**
Patentanwalt, Bahnhofstrasse 103; D-82166 Grafelfing; (DE)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 570524 | A1 | 19931124 | (Basic) |
| | EP | 570524 | B1 | 19960103 | |
| | WO | 9214239 | | 19920820 | |
| Application | EP | 92907077 | | 19920204 | |
| | WO | 92US898 | | 19920204 | |
| Priorities | US | 650571 | | 19910204 | |
| | US | 710174 | | 19910604 | |

Designated States:

AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;
NL; SE;

International Patent Class (V7): G11B-007/00; G11B-020/00; G06K-007/10; ...G06K-007/10

NOTE: No A-document published by EPO

| Type | Pub. Date | Kind | Text |
|--|-----------|--------|------------|
| Publication: | English | | |
| Procedural: | English | | |
| Application: | English | | |
| Available Text | Language | Update | Word Count |
| CLAIMS B | (English) | EPAB96 | 907 |
| CLAIMS B | (German) | EPAB96 | 827 |
| CLAIMS B | (French) | EPAB96 | 1077 |
| SPEC B | (English) | EPAB96 | 16428 |
| Total Word Count (Document A) 0 | | | |
| Total Word Count (Document B) 19239 | | | |
| Total Word Count (All Documents) 19239 | | | |

Specification: ...in the nature of reconstruction filtering or image enhancement, may be applied as needed to improve the resolution of the two-dimensional image representation so that it is suitable for locating the symbols and

determining, within a desired accuracy, the digital value of the digital ...from the present invention. 2. Reconstruction Filter

After the position of one or more alignment patterns has been determined, the reconstruction filter 62 increases the resolution of the image representation in the neighborhood of each pixel by applying a two-dimensional...

8/3K/4 (Item 4 from file: 348) [Links](#)

EUROPEAN PATENTS

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00441086

Improved pel resolution addressing conversion.

Adressenwandlung zur erweiterten Punktauflösung.

Conversion d'adresage amelioree de resolution de pixel.

Patent Assignee:

- **International Business Machines Corporation; (200120)**

Old Orchard Road; Armonk, N.Y. 10504; (US)

(applicant designated states: DE;FR;GB)

Inventor:

- **Kantor, Sherwood**

4857 Fairlawn Circle; Boulder, Colorado 80301; (US)

Legal Representative:

- **Schuffenecker, Thierry (69981)**

Compagnie IBM France, Departement de Propriete Intellectuelle; F-06610 La Gaude; (FR)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 412034 | A2 | 19910206 | (Basic) |
| | EP | 412034 | A3 | 19920624 | |
| | EP | 412034 | B1 | 19950816 | |
| Application | EP | 90480081 | | 19900605 | |
| Priorities | US | 389453 | | 19890804 | |

Designated States:

DE; FR; GB;

International Patent Class (V7): H04N-001/40; G06K-015/02; ; ...G06K-015/02 Abstract ...Enhancement of text characters when converted to a higher resolution without degrading imbedded halftone images. Enhancement at the higher resolution is determined by comparing predetermined patterns to individual lower resolution pels and surrounding pels. The predetermined patterns are selected as occurring ...

Abstract Word Count: 53

| Type | Pub. Date | Kind | Text |
|----------------------------------|-----------|--------|------------|
| Publication: | English | | |
| Procedural: | English | | |
| Application: | English | | |
| Available Text | Language | Update | Word Count |
| Total Word Count (Document A) | | | |
| Total Word Count (Document B) | | | |
| Total Word Count (All Documents) | | | |

8/3K/5 (Item 5 from file: 348) [Links](#)

EUROPEAN PATENTS

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00241456

Compensation for fine line prints.

Kompensation beim Drucken feiner Striche.

Compensation pour l'impression de lignes fines.

Patent Assignee:

- **International Business Machines Corporation; (200120)**

Old Orchard Road; Armonk, N.Y. 10504; (US)

(applicant designated states: DE;FR;GB;IT)

Inventor:

- **Kantor, Sherwood (NMI)**

4857 Fairlawn Circle; Boulder Colorado 80301; (US)

- **Selby, Garry Joe**

1634 Albion Lane; Longmont Colorado 80501; (US)

- **Wolfe, Larry Lance**

2919 West 11th Avenue Circle; Broomfield Colorado 80020; (US)

Legal Representative:

- **Schuffenecker, Thierry (69981)**

Compagnie IBM France, Departement de Propriete Intellectuelle; F-06610 La Gaude; (FR)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 246457 | A2 | 19871125 | (Basic) |
| | EP | 246457 | A3 | 19890823 | |
| | EP | 246457 | B1 | 19920708 | |
| Application | EP | 87105871 | | 19870422 | |
| Priorities | US | 864985 | | 19860520 | |

Designated States:

DE; FR; GB; IT;

International Patent Class (V7): G06K-015/12; G03G-015/00; H04N-001/40; ; G06K-015/12... Abstract Word

Count: 178

| Type | Pub. Date | Kind | Text |
|---------------------------------------|-----------|--------|------------|
| Publication: | English | | |
| Procedural: | English | | |
| Application: | English | | |
| Available Text | Language | Update | Word Count |
| CLAIMS B | (English) | EPBBF1 | 1552 |
| CLAIMS B | (German) | EPBBF1 | 892 |
| CLAIMS B | (French) | EPBBF1 | 968 |
| SPEC B | (English) | EPBBF1 | 5934 |
| Total Word Count (Document A) 0 | | | |
| Total Word Count (Document B) 9346 | | | |
| Total Word Count (All Documents) 9346 | | | |

Specification: ...to as the '264 patent in the rest of the text) describes fine line print enhancement which identifies selected locations using pattern recognition techniques, and has the capability of widening fine lines, both parallel to and perpendicular...

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00161466

Apparatus for proximity detection of an opaque pattern on a translucent substrate.

Apparat zur Annaherungsabtastung eines undurchsichtigen Musters auf einem durchscheinenden Träger.
Appareil pour la detection rapprochée d'un motif opaque sur un support translucide.

Patent Assignee:

- **International Business Machines Corporation; (200120)**
Old Orchard Road; Armonk, N.Y. 10504; (US)
(applicant designated states: DE;FR;GB)

Inventor:

- **Goodman, Douglas Seymour**
2616 Darnley Place; Yorktown Heights New York 10598; (US)

Legal Representative:

- **Ekstrom, Gosta E. (22691)**
IBM Svenska AB Intellectual Property Department; S-163 92 Stockholm; (SE)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 166881 | A2 | 19860108 | (Basic) |
| | EP | 166881 | A3 | 19880921 | |
| | EP | 166881 | B1 | 19901024 | |
| Application | EP | 85104680 | | 19850419 | |
| Priorities | US | 626366 | | 19840629 | |

Designated States:

DE; FR; GB;

International Patent Class (V7): G06K-007/10; H04N-001/028; ; G06K-007/10... Abstract ...between a rear illuminated opaque pattern (12) on a translucent substrate (24) and an optical pattern sensing device (22) viewing the shadow image of the opaque pattern is increased without any corresponding loss of resolution (and/or resolution may be increased without any corresponding reduction in the physical separation between the optical pattern sensing device and the opaque pattern) by positioning a narrow spectral band pass interference filter (30...

Abstract Word Count: 117

| Type | Pub. Date | Kind | Text |
|----------------------------------|-----------|--------|------------|
| Publication: | English | | |
| Procedural: | English | | |
| Application: | English | | |
| Available Text | Language | Update | Word Count |
| Total Word Count (Document A) | | | |
| Total Word Count (Document B) | | | |
| Total Word Count (All Documents) | | | |

8/3K/7 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00971402

IMAGE BASED OBJECT IDENTIFICATION
IDENTIFICATION D'OBJETS SUR LA BASE D'IMAGES

Patent Applicant/Patent Assignee:

• **EMBLAZE SYSTEMS LTD**; 22 Zarchin Street, P.O. Box 2220, Industrial Zone, 43662 Ra'anana
IL; IL(Residence); IL(Nationality)

• **LEV TvsI**; 11 Lessin Street, Apartment 6, 62997 Tel Aviv
IL; IL(Residence); IL(Nationality)
(Designated only for: US)

Patent Applicant/Inventor:

• **LEV TvsI**
11 Lessin Street, Apartment 6, 62997 Tel Aviv; IL; IL(Residence); IL(Nationality); (Designated only for: US)

Legal Representative:

• **EMBLAZE SYSTEMS LTD(commercial rep.)**
c/o Mandir, William, H., Sughrue Mion, PLLC, Suite 800, 2100 Pennsylvania Ave., N.W., Washington, DC
20037-3213; US;

| | Country | Number | Kind | Date |
|-------------|---------|------------|------|----------|
| Patent | WO | 200301435 | A1 | 20030103 |
| Application | WO | 2002IB3352 | | 20020621 |
| Priorities | US | 2001299734 | | 20010622 |

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

| IPC | Level |
|-------------|-------|
| G06K-009/00 | Main |

Publication Language: English
Filing Language: English
Fulltext word count: 10776

Detailed Description:

...in video frame rate, allowing the algorithm to choose the frame most suitable for the **detection of the barcode digits**.

(1) Image Enhancement Algorithms.

[147] These functions are a family of image processing functions required in
order to **improve contrast and resolution**, for other image processing
algorithms.

(2) Finding Barcode Areas in the image

[148] The image is divided into square regions, 3202 pixels in size. On each of...

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00909145

**PLANAR LASER ILLUMINATION AND IMAGING (PLIIM) SYSTEMS WITH INTEGRATED
DESPECKLING MECHANISMS PROVIDED THEREIN**
SYSTEMES PLIIM D'ILLUMINATION ET D'IMAGERIE AU LASER PLANaire A MECANISME DE
DECHATOIEMENT INTEGRE

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- **KIM Steve Y**; 129 Franklin Street, #113, Cambridge, MA 02139
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(Designated only for: US)

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- **SCHNEE Michael D**
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- **AU Ka Man**
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- **WIRTH Allan**
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- **GOOD Timothy A**
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- **JANKEVICS Andrew J**
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- **GHOSH Sankar**
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- **NAYLOR Charles A**
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- **AMUNDSEN Thomas**
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- **SVEDAS William**
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- **DEFONEY Shawn**
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- **KOLIS George**
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- **YORSZ Jeffrey**
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- **GIORDANO Patrick A**
1501 Little Gloucester Road, Apartment #U-40, Blackwood, NJ 08012; US; US(Residence); US(Nationality); (Designated only for: US)
- **COLAVITO Stephen J**
3520 Edgewater Lane, Brookhaven, PA 19015-2607; US; US(Residence); US(Nationality); (Designated only for: US)
- **WILZ David W Sr**
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- **SCHWARTZ Barry E**
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- **KIM Steve Y**
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- **FISCHER Dale**
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- **PERKOWSKI Thomas J(et al)(agent)**
Thomas J. Perkowski, Esq., P.C., Soundview Plaza, 1266 East Main Street, Stamford, CT 06902; US;

| | Country | Number | Kind | Date |
|-------------|---------|-------------|-------|----------|
| Patent | WO | 200243195 | A2-A3 | 20020530 |
| Application | WO | 2001US44011 | | 20011121 |
| Priorities | US | 2000721885 | | 20001124 |
| | US | 2001780027 | | 20010209 |
| | US | 2001781665 | | 20010212 |
| | US | 2001883130 | | 20010615 |
| | US | 2001954477 | | 20010917 |
| | US | 2001999687 | | 20011031 |

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

| IPC | Level |
|---------------------------|-------|
| G06K-007/10 | Main |
| G06K-007/14...G06K-007/00 | |

Publication Language: English
Filing Language: English
Fulltext word count: 298301

Claims:

...1111A, the following parameters will influence the number of substantially different time-varying speckle-noise patterns generated at the **image detection** array during each photo-integration time period thereof: (i) the spatial period of the spatial...

POSITION INFORMATION
INFORMATION DE POSITION

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(Designated only for: US)

Patent Applicant/Inventor:

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Box 45086, S-104 30 Stockholm; SE;

| | Country | Number | Kind | Date |
|-------------|---------|-----------|------|----------|
| Patent | WO | 200171643 | A1 | 20010927 |
| Application | WO | 2001SE608 | | 20010321 |
| Priorities | SE | 2000949 | | 20000321 |

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

| IPC | Level |
|----------------|-------|
| G06K-001/12 | Main |
| G06K-011/18... | |

Publication Language: English
Filing Language: English
Fulltext word count: 7850

Detailed Description:

...as the adjoining positions. The floating coding is advantageous since it makes it possible to increase the position **resolution**.

Furthermore, it is possible to reduce the relationship between, on the one hand, the number of **symbols** which a position-**determining** device must register in order to be able to carry out a position determination reliably...

8/3K/10 (Item 4 from file: 349) [Links](#)

PCT FULLTEXT

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00217014

**STORAGE MEDIUM AND APPARATUS AND METHOD FOR RECOVERING INFORMATION FROM
SUCH MEDIUM BY OVERSAMPLING**

SUPPORT DE STOCKAGE ET APPAREIL ET PROCEDE POUR EXTRAIRE DES INFORMATIONS DE CE
SUPPORT PAR SURECHANTILLONNAGE

Patent Applicant/Patent Assignee:

• **DOLBY LABORATORIES LICENSING CORPORATION;**

;;

• **SEAGRAVE Charles Gordon;**

;;

• **RICHARDS Martin John;**

;;

• **MANDELL Douglas Evan;**

;;

• **ATHERTON Mark Leighton;**

;;

| | Country | Number | Kind | Date |
|-------------|---------|---------|------|----------|
| Patent | WO | 9214239 | A1 | 19920820 |
| Application | WO | 92US898 | | 19920204 |
| Priorities | US | 91571 | | 19910204 |
| | US | 91174 | | 19910604 |

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Main International Patent Classes (Version 7):

| IPC | Level |
|---------------|-------|
| ...G06K-07:10 | |

Publication Language: English

Filing Language:

Fulltext word count: 17578

Detailed Description:

...in the nature of reconstruction filtering or image enhancement, may be applied as needed to **improve the resolution** of the two-dimensional image representation so that it is suitable for locating the **symbols** and **determining**, within a desired accuracy, the digital value of the digital information which they represent. The...from the present invention.

2. Reconstruction Filter

After the position of one or more alignment **patterns** has been **determined**, the reconstruction filter 62 **increases the resolution** of the image representation in the neighborhood of each pixel by applying a two35 dimensional...

16/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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00281392

OPTICAL SCANNER INCLUDING POSITION SENSORS.
OPTISCHE ABTASTVORRICHTUNG MIT ORTUNGSFUHLERN.
LECTEUR OPTIQUE EQUIPE DE CAPTEURS DE POSITION.

Patent Assignee:

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Inventor:

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| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 277964 | A1 | 19880817 | (Basic) |
| | EP | 277964 | A1 | 19900321 | |
| | EP | 277964 | B1 | 19930414 | |
| | WO | 8800712 | | 19880128 | |
| Application | EP | 87904768 | | 19870702 | |
| | WO | 87US1582 | | 19870702 | |
| Priorities | US | 889130 | | 19860723 | |

Designated States:

DE; FR; GB; IT;

International Patent Class (V7): G01V-009/04; G06K-011/06; H04N-001/10; ; ...G06K-011/06

NOTE: No A-document published by EPO

| Type | Pub. Date | Kind | Text |
|---------------------------------------|-----------|--------|------------|
| Publication: English | | | |
| Procedural: English | | | |
| Application: English | | | |
| Available Text | Language | Update | Word Count |
| CLAIMS B | (English) | EPBBF1 | 472 |
| CLAIMS B | (German) | EPBBF1 | 484 |
| CLAIMS B | (French) | EPBBF1 | 516 |
| SPEC B | (English) | EPBBF1 | 3714 |
| Total Word Count (Document A) 0 | | | |
| Total Word Count (Document B) 5186 | | | |
| Total Word Count (All Documents) 5186 | | | |

Specification: ...Plurality of sensors 208 are spaced slightly differently than lines 210. Because of this, a **pattern** is created which **enhances the resolution** achieved by **sensors 208**. This can best be understood with reference to Figure 9a and 9b

18/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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01346332

Image forming apparatus, control method thereof, image forming method, and storage medium

Bilderzeugungsgerat, Steuerverfahren dafur, Bilderzeugungsverfahren und Speichermedium

Dispositif de formation d'image, procede de commande pour ce dispositif, procede de formation d'image et support

d'enregistrement

Patent Assignee:

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(Applicant designated States: all)

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Legal Representative:

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| | Country | Number | Kind | Date | |
|-------------|---------|------------|------|----------|---------|
| Patent | EP | 1150490 | A2 | 20011031 | (Basic) |
| | EP | 1150490 | A3 | 20050209 | |
| Application | EP | 2001102324 | | 20010201 | |
| Priorities | JP | 200025270 | | 20000202 | |

Designated States:
DE; FR; GB; IT;

Extended Designated States:
AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04N-001/32 Abstract Word Count: 82

NOTE: 1

NOTE: Figure number on first page: 1

| Type | Pub. Date | Kind | Text |
|------|-----------|------|------|
|------|-----------|------|------|

Publication: English

Procedural: English

Application: English

| Available Text | Language | Update | Word Count |
|----------------|-----------|--------|------------|
| CLAIMS A | (English) | 200144 | 3513 |
| SPEC A | (English) | 200144 | 30265 |

| |
|--|
| Total Word Count (Document A) 33778 |
| Total Word Count (Document B) 0 |
| Total Word Count (All Documents) 33778 |

Specification: ...returned to the first insert bin to gather the second copy. The above operation is **repeated** certain times corresponding to the set number of copies. This is the sheet feed method from the inserter in the S...

18/3K/2 (Item 2 from file: 348) [Links](#)

EUROPEAN PATENTS

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00673119

Image processing apparatus

Bildverarbeitungsvorrichtung

Appareil de traitement d'images

Patent Assignee:

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(Proprietor designated states: all)

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- Miyake, Nobutaka, Canon Kabushiki Kaisha...

Legal Representative:

- Beresford, Keith Denis Lewis et al (28273)
BERESFORD & Co. 2-5 Warwick Court, High Holborn; London WC1R 5DH; (GB)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 645736 | A2 | 19950329 | (Basic) |
| | EP | 645736 | A3 | 19951102 | |
| | EP | 645736 | B1 | 20030205 | |
| Application | EP | 94306991 | | 19940926 | |
| Priorities | JP | 93239993 | | 19930927 | |
| | JP | 93244737 | | 19930930 | |
| | JP | 93244958 | | 19930930 | |

Designated States:

DE; FR; GB;

International Patent Class (V7): G06T-003/40 Abstract Word Count: 131

NOTE: 1

NOTE: Figure number on first page: 1

| Type | Pub. Date | Kind | Text |
|------|-----------|------|------|
|------|-----------|------|------|

Publication: English

Procedural: English

Application: English

| Available Text | Language | Update | Word Count |
|----------------|-----------|--------|------------|
| CLAIMS A | (English) | EPAB95 | 1297 |
| SPEC A | (English) | EPAB95 | 14098 |
| CLAIMS B | (English) | 200306 | 760 |
| CLAIMS B | (German) | 200306 | 685 |

| | | | |
|--|-----------|--------|-------|
| CLAIMS B | (French) | 200306 | 902 |
| SPEC B | (English) | 200306 | 13998 |
| Total Word Count (Document A) 15399 | | | |
| Total Word Count (Document B) 16345 | | | |
| Total Word Count (All Documents) 31744 | | | |

Specification: ...of times equivalent to the number of passes, which is set in advance. When this processing is repeated the set number of passes, the switch 301 is connected to terminal A so that the enlarged ...

Specification: ...of times equivalent to the number of passes, which is set in advance. When this processing is repeated the set number of passes, the switch 301 is connected to terminal A so that the enlarged ...

18/3K/3 (Item 3 from file: 348) [Links](#)

EUROPEAN PATENTS

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00338765

Original handling apparatus.

Original-Zufuhrvorrichtung.

Appareil d'amenee de documents.

Patent Assignee:

- **CANON KABUSHIKI KAISHA; (542361)**
30-2, 3-chome, Shimomaruko, Ohta-ku; Tokyo; (JP)
(applicant designated states: DE;FR;GB;IT)

Inventor:

- **Honjo, Takeshi**
27-6, Sugebanba 3-chome Tama-ku; Kawasaki-shi Kanagawa-ken; (JP)
- **Yoshida, Akimaro**
OA Building 12-8, Chuo-cho 1-chome; Meguro-ku Tokyo; (JP)
- **Kitahara, Makoto**
8-15, Chuo 2-chome; Ohta-ku Tokyo; (JP)
- **Miyake, Norifumi**
2-9-105, Takenotsuka 6-chome; Adachi-ku Tokyo; (JP)
- ...JP)
;;
- **Miyake, Norifumi...**
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Legal Representative:

- **Tiedtke, Harro, Dipl.-Ing. et al (11949)**
Patentanwaltsburo Tiedtke-Buhling-Kinne & Partner Bavariaring 4; D-80336 Munchen; (DE)

| | Country | Number | Kind | Date | |
|-------------|---------|----------|------|----------|---------|
| Patent | EP | 333107 | A2 | 19890920 | (Basic) |
| | EP | 333107 | A3 | 19900509 | |
| | EP | 333107 | B1 | 19931208 | |
| Application | EP | 89104434 | | 19890313 | |
| Priorities | JP | 8860107 | | 19880314 | |
| | JP | 8860108 | | 19880314 | |
| | JP | 8860109 | | 19880314 | |
| | JP | 88118591 | | 19880516 | |

| | | | | |
|--|----|----------|----------|--|
| | JP | 88118592 | 19880516 | |
|--|----|----------|----------|--|

Designated States:
DE; FR; GB; IT;

International Patent Class (V7): G03G-015/00; G03B-027/62; Abstract Word Count: 68

| Type | Pub. Date | Kind | Text |
|--|-----------|--------|------------|
| Publication: | English | | |
| Procedural: | English | | |
| Application: | English | | |
| Available Text | Language | Update | Word Count |
| CLAIMS B | (English) | EPBBF1 | 868 |
| CLAIMS B | (German) | EPBBF1 | 768 |
| CLAIMS B | (French) | EPBBF1 | 940 |
| SPEC B | (English) | EPBBF1 | 8489 |
| Total Word Count (Document A) 0 | | | |
| Total Word Count (Document B) 11065 | | | |
| Total Word Count (All Documents) 11065 | | | |

Specification: ...must be performed at least once. For this reason, as the number of times of repetition of conveying and stopping is increased, even if stop position control of the conveyor belt can be smoothly performed...

21/3K/1 (Item 1 from file: 348) [Links](#)

EUROPEAN PATENTS

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01273167

Image processing apparatus and method, and storage medium therefor

Bildverarbeitungsvorrichtung und -Verfahren, und Speichermedium dafur

Dispositif et procede de traitement d'image, et support d'enregistrement pour ceci

Patent Assignee:

- CANON KABUSHIKI KAISHA; (542361)
30-2, 3-chome, Shimomaruko, Ohta-ku; Tokyo; (JP)
(Applicant designated States: all)

Inventor:

- Miyake, Nobutaka
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- Miyake, Nobutaka...
;;

Legal Representative:

- Beresford, Keith Denis Lewis et al (28273)
BERESFORD & Co. 2-5 Warwick Court, High Holborn; London WC1R 5DH; (GB)

| | Country | Number | Kind | Date | |
|-------------|---------|------------|------|----------|---------|
| Patent | EP | 1096782 | A2 | 20010502 | (Basic) |
| | EP | 1096782 | A3 | 20020417 | |
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AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04N-001/32; H04N-001/00 Abstract ...information for the purpose of being printed out has been entered, whether or not the **image** information contains a **mark** **image** such as a **watermark** is determined to such an extent that will not lower the throughput of a printer...

Abstract Word Count: 102

NOTE: 4

NOTE: Figure number on first page: 4

| Type | Pub. Date | Kind | Text |
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Specification: ...and storage medium for determining whether image information contains a specific mark such as a **watermark**. **BACKGROUND OF THE INVENTION**

Research for multiplexing image information with other image-related information is being conducted extensively. There is continuing standardization of a technique referred to as an electronic- **watermark** technique through which **image** information representing a photograph or picture, etc., is multiplexed with additional information, such as the... ...and the multiplexed images are distributed over a network such as the Internet. Such a **watermark** often is used primarily for the purpose of copyright protection.

Another field of application is... ...input/output devices such as copiers, scanners and printers. For example, a special mark or **watermark** is multiplexed with a banknote, stamp or security in advance. When the mark is sensed... ...makes it impossible to use a printed copy unlawfully.

An example of embedding of a **watermark** will be described with reference to Fig. 5. This illustrates an example of an electronic... ...region in actual space by inverse orthogonal transform processing 503. Image information in which the **watermark** has been embedded is thus obtained. In a case where the **watermark** is used in a banknote, stamp or security, a transition is made to print processinghowever, have a number of problems.

Specifically, with the above-described method of detecting a **watermark**, processing such as orthogonal transformation requires a great deal of image memory and processing time... ...circles or the detection of a banknote, stamp or security, matching with a pre-registered **pattern** is evaluated. As with the **watermark**, a great deal of image memory and processing time are required.

A major factor in... ...methods is that the purpose is to detect whether or not an embedded mark or **watermark** exists. That is, since these methods are premised on the fact that a mark or **watermark** has already been **embedded** in all **image** information, not that much processing time is required if only the type of mark is... ...of items of information to undergo detection processing does not contain an embedded mark or **watermark**. In other words, an enormous amount of time is needed to prove reliably that image information that is entirely free of an embedded mark or **watermark** has no embedded **watermark**. Further, in order to prove reliably that no mark or **watermark** has been embedded, it is necessary to execute detection processing a plurality of times and...that will not lower the throughput of a printer, whether the image information contains an **image** such as a **watermark**.

According to the present invention, the foregoing object is attained by providing an image processing... ...by comprising: input means for inputting image information; determination means for determining whether an input **image** contains a **mark** indicative of a specific **image**; setting means for setting allowable time necessary for the determination... ...by the determination means in a case where it cannot be determined whether the input **image** contains the **mark** within the allowable time set by the setting means.

Other features and advantages of the... ...an example of demultiplexing; and

Fig. 7 is a diagram illustrating an example of registered **patterns** according to an embodiment of the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

A preferred...e., 1/8) is sampled in regard to both the horizontal and vertical magnifications.

Next, **pattern** matching is executed with regard to individual **patterns** registered in advance. It is required that the registered **patterns** be specific **mark patterns** that can identify a banknote, stamp or security, etc. In matching processing, a registered **pattern** also is changed in conformity with the subsampling rate as a manner of course. **Patterns** of a plurality of marks per $2n/8$ ($n = 0, 1, 2, 3$) subsamplings have... ...in accordance with the value of n .

Next, at step S304, the rate at which **pattern** matches are achieved is compared with a threshold value $TH(n)$ set in advance. The... ...storage device such as a hard disk in advance on a per-subsampling basis.

In **pattern** matching, decision processing is executed to successively determine whether the value of a subsampled pixel and pixels of a certain one **mark** of the **patterns** in Fig. 7 match. However, a predetermined allowable range is provided. More specifically, letting P_ipixel of a print image and Q_1) the value of a pixel in a registered **pattern**, it is decided that a match with the value of a pixel of interest matches... ...a predetermined value.

The match rate (the rate at which a match with a registered **pattern** is achieved) can be determined using various evaluation functions, e.g., the ratio of number... ...match rate exceeds the threshold value ("YES" at step 304), it is judged that the **pattern** is the specific **pattern** at step S307 and processing is exited. If the match rate is equal to or... ...answer is "YES", control returns to step S302, the subsampling rate is changed, the next **pattern** group is selected as the object of **pattern** matching and **pattern** matching processing is repeated.

According to this embodiment, processing is repeated until the subsampling magnification... ...exceed the threshold value even at such time, then it is judged that a specific **pattern** is absent at step S308.

Fig. 4 is a flowchart illustrating the relationship between a...present. The example of the flowchart shown in Fig. 3 is such that if a **mark** exists in an **image**, the rate at which **pattern** matching is judged to have been attained is high even with a coarsely subsampled image... ...of repetitions.

This holds true not only for visible marks but also for detection of **watermarks**. If an **image** contains a **watermark**, this can be clarified instantly by the initial loop (the loop for which $n = 0$ holds). If an **image** does not contain a **watermark**, processing time is prolonged. If, say, a frequency region is used for the embedding of a **watermark**, processing time becomes much longer in comparison with a case where a region of actualprocessing, this processing will end within the time limit when a mark (inclusive of a **watermark**) is present. As a result, the mark can be detected at a high probability. In... ...forth above, a very large number of items of information do not contain a specific **mark**. The printing of **image** information containing an **embedded** specific **mark** is an act performed by some users with unlawful intentions. For the vast...which it is determined whether image data to be printed contains an **image** (a visible **image** or a visible **watermark**) that matches the registered **image** of a **mark**. However, the invention may be applied to a case where an **image** to be printed contains an invisible **watermark**. In such case an orthogonal transform would be applied in, e.g., units of (8... ...that will not lower the throughput of a printer, whether the **image** information contains an **image** such as a **watermark**.

As many apparently widely different embodiments of the present invention can be made without departing...

Claims: ...by comprising:

input means for inputting **image** information;

determination means for determining whether an input **image** contains a **mark** indicative of a specific **image**;

setting means for setting allowable time necessary for the determination... ...by said determination means in a case where it cannot be determined whether the input **image** contains the **mark** indicative of a specific **image** within the allowable time set by said setting means.

2The apparatus according to claim 1, characterized in that the **mark** indicative of a specific **image** includes a **watermark**.

11. A host computer incorporating the **image** processing apparatus set forth in claim 1.

12... ...**image** information;

a determination step of determining whether an **image** obtained by subsampling the input **image** contains a **mark** indicative of a specific **image**;

a setting step of setting allowable time necessary for the... ...at said determination step in a case where it cannot be determined whether the input **image** contains the **mark** indicative of a specific **image** within the allowable time set at said setting means.

14code of a determination step of determining whether an **image** obtained by subsampling the input **image** contains a **mark** indicative of a specific **image**;

program code of a setting step of setting allowable time... ...at said determination step in a case where it cannot be determined whether the input image contains the mark indicative of a specific image within the allowable time set at said setting means.

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 Date: 3/12/2007

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PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = MIYAKE

First Name = NOBUTAKA

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
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Inventor Search Completed: No Records to Display.

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